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THE COUNTY OF  
**POWHATAN**  
VIRGINIA

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March 7, 2014

Chairman Thomas Wheeler  
Commissioner Mignon Clyburn  
Commissioner Jessica Rosenworcel  
Commissioner Ajit Pai  
Commissioner Michael O'Rielly  
Jonathan Chambers  
Federal Communications Commission  
445 12th Street, SW 20024  
Washington, DC

**VIA ELECTRONIC SUBMITTAL**

**Re: Expression of Interest – Rural Broadband Experiments  
Connect America Fund, WC Docket No. 10-90**

Dear Chairman Wheeler, Commissioners, and Mr. Chambers,

This letter is to express the County of Powhatan's interest in participating in the Rural Broadband Experiments announced at the January 30, 2014 Federal Communications Commission Open Meeting. While we do not have a project to propose, we would like to take this opportunity to document Powhatan's need for high-speed Internet service. We respectfully ask the Federal Communications Commission (FCC) to consider our area's need when making decisions regarding the Rural Broadband Trials and any future initiatives related to the Connect America Fund.

The County of Powhatan is located in Virginia's Central Piedmont between the Appomattox and James Rivers; twenty miles west of Richmond and within a two-hour drive from the Atlantic Ocean, Washington, D.C., Colonial Williamsburg, and the Blue Ridge Mountains. The County consists of 272 square miles (174,800 acres) and has a population of 28,046 (per the 2010 U.S. Census), a 25% increase from the 2000 population of 22,370. Powhatan ranks as one of the fastest growing localities in Virginia.

Powhatan County seeks the development of a fiber optic broadband network that will provide access service to businesses, homes, community institutions and government facilities within the County. The County desires a service level of 1 Gbps symmetric service to all facilities, however, minimum acceptable bandwidths to each facility will be identified. The system must

include all active and passive infrastructure, including fiber cabling, active repeater equipment, uninterruptible power supplies, network cross-connections, software, ancillary equipment, and ongoing main tenancy; and be installed to prevailing industry standards, including appropriate conduit with marking tape.

Certain services provided by the County are 1) highly dependent on Internet availability, and 2) critical to the health, safety and welfare of the citizens of Powhatan County. Therefore, the County expects redundant loops, multiple Internet access points, backup equipment, and/or other means and technology available to provide 100% uptime to facilities deemed mission critical.

Internet service in the County is currently provided by Verizon via digital subscriber line service, or DSL, (54% of residents) and Comcast (28% of residents) via cable modem. The services offered by these providers do not provide the necessary network infrastructure to attract and retain businesses in the community and meet the needs of the community. A broadband survey of county residents was conducted in 2011 and found the following:

- 96% have Internet connection;
- 95% felt the Internet is very important to their household;
- 80% wanting better Internet service;
- 65% are willing to pay more for better service;
- 46% need evening and weekend Internet access for their place of work;
- 49% of VPN access to their place of work, meaning a significant number of workers already need business class broadband access from home; and
- 26% work part or full-time from home.

The high response rate to the survey and the resulting data indicates the need exists for improved access to the affordable high performance broadband services like Internet, phone, TV, business video conferencing, data backup, and tele-medicine/tele-health applications.

Increased affordability and availability has the potential to increase job creation in the county, help retain businesses, and improve the county's ability to attract new businesses. Businesses located in the eastern part of the County are constrained by a lack of choice in providers. This limited competition keeps the cost of service high compared to areas with greater competition among providers.

Powhatan is located at the western edge of the Greater Richmond Metropolitan area, has an excellent quality of life, a relatively low cost of living, economic activity, and superb recreational facilities. Having the right broadband infrastructure would provide the county a critical economic development asset to create jobs and business opportunities while preserving the quality of life.

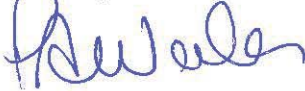
It is estimated that of the next thirty years, businesses, residents and institutions in Powhatan will spend in excess of \$537 million on telecommunications services (voice, video and data). This estimate does not include new services such as tele-medicine, IP-based security applications, video on demand, online gaming and other emerging home and business applications. If Powhatan is to meet its long term economic and community development goals, businesses,



government, and residents must have universal access to a modern digital transport system with a wide choice of services at affordable rates.

Thank you for considering our Expression of Interest in your decisions about the amount of funding that will be allocated in the Rural Broadband Experiments. We commend the FCC in this effort to connect rural communities and are ready to help you close the digital divide.

Sincerely,



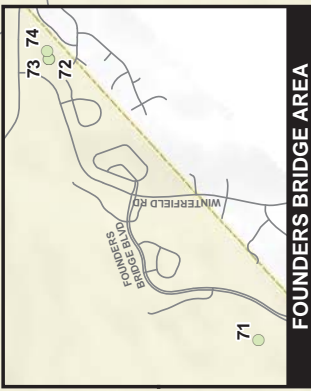
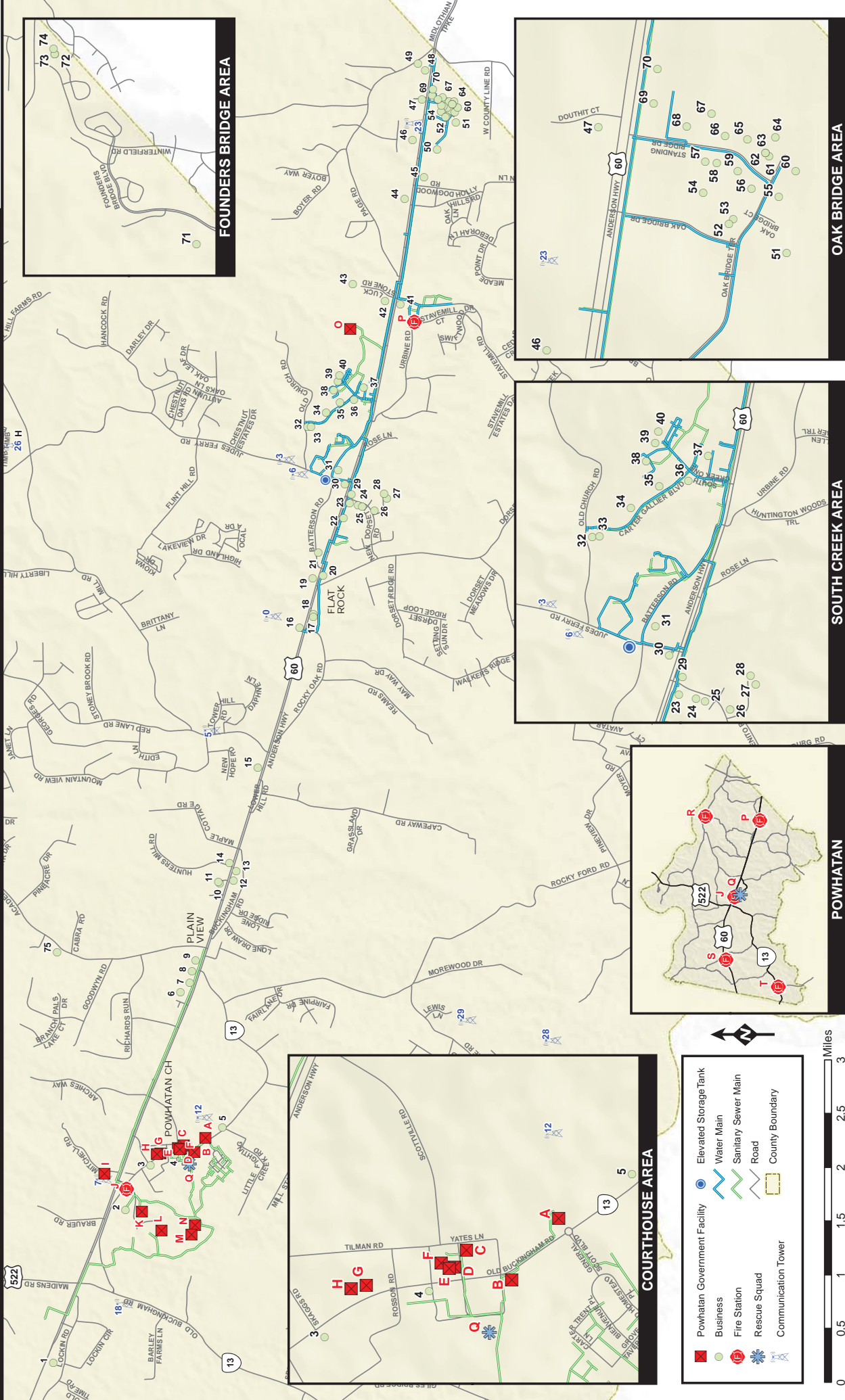
Patricia A. Weiler  
County Administrator  
County of Powhatan

Attachments:

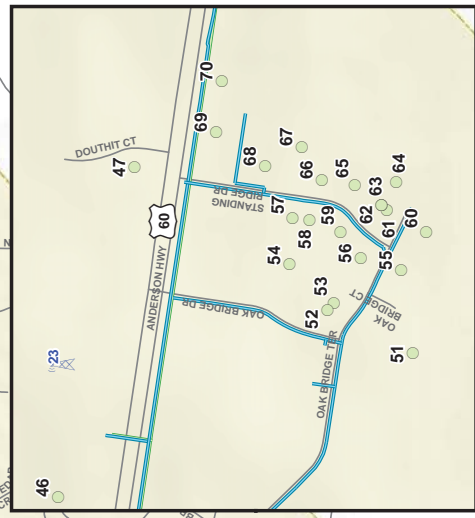
- Attachment A – Map of County Government Facilities and Business Locations
- Attachment B – List of Anchor Institutions/Facility Detail Sheet

# POWHTAN COUNTY GOVERNMENT FACILITIES AND BUSINESS LOCATIONS

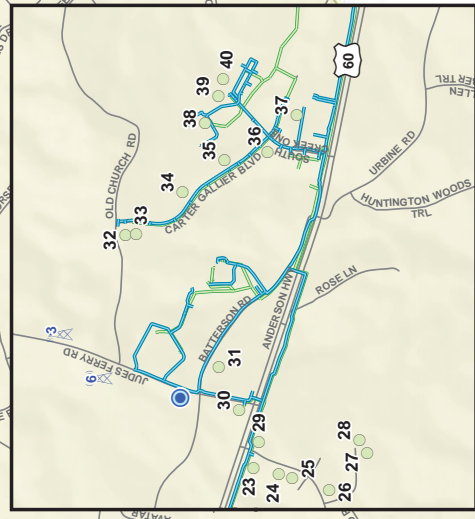
Facility Map  
Attachment A



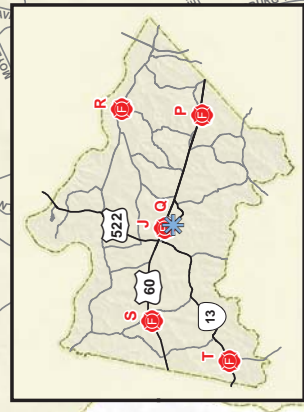
FOUNDERS BRIDGE AREA



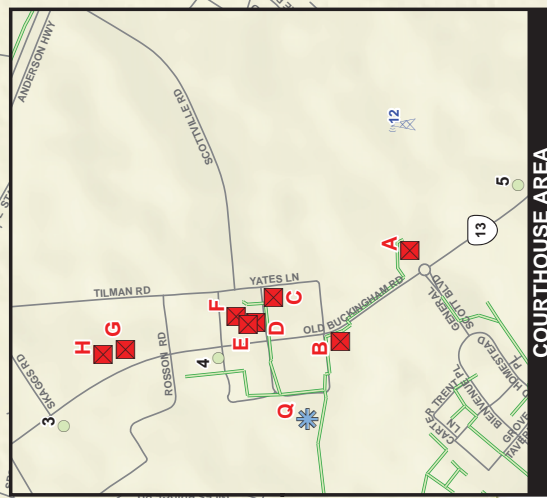
OAK BRIDGE AREA



SOUTH CREEK AREA



POWHTAN



COURTHOUSE AREA

- Powhatan Government Facility
- Business
- ⊕ Fire Station
- ⊕ Rescue Squad
- ⊕ Communication Tower
- Elevated Storage Tank
- Water Main
- Sanitary Sewer Main
- Road
- County Boundary



	COUNTY FACILITY	ADDRESS
A	COUNTY ADMINISTRATION BUILDING	3834 OLD BUCKINGHAM RD
B	UTILITIES & GENERAL SERVICES	3849 OLD BUCKINGHAM RD
C	COMMONWEALTH'S ATTORNEY	3801 MARION HARLAND LN
D	INVESTIGATIONS	3872 OLD BUCKINGHAM RD
E	COUNTY ATTORNEY	3876 OLD BUCKINGHAM RD
F	COUNTY COURTHOUSE	3880 OLD BUCKINGHAM RD
G	HUMAN SERVICES- HEALTH DEPT	3808 OLD BUCKINGHAM RD STE 1
H	VILLAGE BUILDING	3940 OLD BUCKINGHAM RD STE A
I	CONVENIENCE CENTER	2407 MITCHELL RD
J	POWATHAN FIRE DEPARTMENT COMPANY 1	3971 OLD BUCKINGHAM RD
K	POWATHAN PUBLIC LIBRARY	2270 MANN RD
L	FCF CONCESSIONS OFFICE	2175 MANN RD
M	ANIMAL CONTROL	1959 URBINE RD
N	FOCWTP	4000 OLD PLANTATION RD
O	ICOWWTP	3900 OLD PLANTATION RD
P	POWATHAN FIRE DEPARTMENT COMPANY 2 - HPSB	2040 ANDERSON HWY
Q	POWATHAN RESCUE SQUAD	1859 URBINE RD
R	POWATHAN FIRE DEPARTMENT COMPANY 4	3920 MARION HARLAND LN
S	POWATHAN FIRE DEPARTMENT COMPANY 5	1814 HUGUENOT TRL
T	POWATHAN FIRE DEPARTMENT COMPANY 3	5631 ANDERSON HWY
		6377 OLD BUCKINGHAM RD

	BUSINESS	ADDRESS	BUSINESS	ADDRESS	
1	RABID MANUFACTURING	4347 ANDERSON HWY	39	SHADE & WISE BRICK CO	1901 SOUTH CREEK ONE
2	POWATHAN YMCA	2269 MANN RD	40	METRO READY MIX	1900 SOUTH CREEK ONE
3	ADVANTAGE TITLE AGENCY INC	3923 OLD BUCKINGHAM RD STE A	41	SIGN DESIGN OF VA	1901 ANDERSON HWY STE F
4	CHAMBER OF COMMERCE	3887 OLD BUCKINGHAM RD	42	WALMART	1950 ANDERSON HWY
5	HANK COSBY	3812 OLD BUCKINGHAM RD	43	LUCKSTONE	1929 ANDERSON HWY
6	MILBOTHAN FAMILY PRACTICE	3510 ANDERSON HWY	44	VISION	1666 ANDERSON HWY STE B
7	WEIGHTPACK INC.	3490 ANDERSON HWY	45	STALLION OFFICE & GRAPHICS	1601 ANDERSON HWY
8	BON SECOURS MEDICAL	3462 ANDERSON HWY STE D	46	JORD BUILDING	1488 ANDERSON HWY
9	KATRINA BLANKENSHIP	3430 ANDERSON HWY STE E	47	QUALITY DATA SYSTEMS	1701 DOUTHITT CT
10	KOELZER	2160 PLANVIEW CTR	48	FACES OF THE FUTURE ACADEMY	1359 ANDERSON HWY
11	RECRUITING RESOURCES	2180 PLANVIEW CTR	49	OCS OF VIRGINIA	1325 PAGE RD
12	POWATHAN TODAY	3229 ANDERSON HWY STE 109	50	PETCH	1588 OAK BRIDGE TER
13	BENNET FUNERAL HOME	3215 ANDERSON HWY	51	OAK BRIDGE INDUSTRIAL PARK	1475 OAK BRIDGE CT
14	COMMUNITY SELF STORAGE	3200 ANDERSON HWY	52	B&K BIOMEDICAL SERVICES	1506 OAK BRIDGE TER STE A
15	ROYALL PUMP AND WELL	2958 ANDERSON HWY	53	STERILE RESOURCES	1565 OAK BRIDGE TER STE F
16	OLLIES COMPUTERS	2660 ANDERSON HWY	54	SANAIR	1551 OAK BRIDGE DR STE B
17	BAXTER PERKINSON & ASSOCIATES	2625 ANDERSON HWY	55	NEW DIRECTION SERVICES	1480 OAK BRIDGE CT
18	FAMILY DENTISTRY	2615 ANDERSON HWY STE A	56	RGA	1550 STANDING RIDGE DR
19	POWATHAN ANIMAL HOSPITAL	2540 ANDERSON HWY	57	MI INTERNATIONAL CORP	1550 STANDING RIDGE DR
20	NEW HORIZON BANK	2501 ANDERSON HWY	58	ASSOCIATED TECHNOLOGIES INC.	1570 STANDING RIDGE DR
21	TRACTOR SUPPLY COMPANY	2470 ANDERSON HWY	59	X2 US	1560 STANDING RIDGE DR
22	FINE CREEK REALTY	2405 ANDERSON HWY STE A	60	CHIKSAVIBS	1500 OAK BRIDGE TER STE A
23	CVB	2351 ANDERSON HWY	61	CARTER SURGICAL	1546 STANDING RIDGE DR STE A
24	CHILDRENS ACADEMY	2065 NEW DORSET RD	62	DOMINION LEASING SOFTWARE	1546 STANDING RIDGE DR
25	DIXONS AUCTIONS	2043 NEW DORSET RD	63	CARTER SURGICAL	1546 STANDING RIDGE DR
26	HEFF JONES	2020 NEW DORSET RD	64	PENNSYLVANIA STEEL	1495 OAK BRIDGE TER
27	BLUE HORIZON	2417 NEW DORSET TER	65	POWATHAN PHYSICAL THERAPY	1555 STANDING RIDGE DR STE C1
28	LAYMAN & SON	2409 NEW DORSET TER	66	BEVANS LANDSCAPING	1575 STANDING RIDGE DR STE E
29	COLDWY CONSTRUCTION	2333 ANDERSON HWY	67	RIBLET WHOLESAL	1575 STANDING RIDGE DR STE A
30	BANK OF POWATHAN	2320 ANDERSON HWY	68	EAGLE TELE SERVICES	1588 STANDING RIDGE DR
31	RS THOMAS	2285 BATTERSON RD	69	SUPR STRUCTURES	1417 ANDERSON HWY
32	KIDZALAT	2195 CARTER GALLIER BLVD	70	ELAM ANIMAL HOSPITAL	1403 ANDERSON HWY
33	TDU CONCRETE INC	2191 CARTER GALLIER BLVD	71	INDEPENDENCE GOLF COURSE	600 FOUNDERS BRIDGE BLVD
34	BENCHMARK CONSTRUCTION	2150 CARTER GALLIER BLVD UNIT A	72	POOLEY POOLE ARCHITECTURE	3736 WINTERFELD RD STE 100
35	NAC LLC	2120 CARTER GALLIER BLVD	73	SOWERS AND ASSOCIATES	3736 WINTERFELD RD STE 110
36	TO AT BODYWORKS	2097 CARTER GALLIER BLVD	74	WINTERFIELD VETERINARY HOSPITAL	3746 WINTERFELD RD
37	POWATHAN PHARMACY	1800 SOUTH CREEK ONE STE L	75	BLESSED SACRAMENT HUGUENOT	2501 ACADEMY RD
38	FERGUSON WATERWORKS	1805 SOUTH CREEK ONE			

Tower	Street Address	Height	Owner	Type	Lat	Long
0	2700 Anderson Hwy	50	FAA (Fed Govt.)	aircraft	37.528496	-77.528226
1	850 Clayton Rd	300	Blue Ridge Telecom	cellular	37.460946	-78.076111
2	3100 Monte Rd	320	Blue Ridge Telecom	cellular	37.616340	-77.864480
3	1910 Judea Ferry Rd	203	American Tower	cellular	37.526557	-77.801566
4	1001 Dorset Rd	380	Crown Castle Corp	cellular	37.476004	-77.808622
5	2182 Tower Hill Rd	288	American Tower	cellular	37.538876	-77.847587
6	1901 Judea Ferry Rd	275	Sub Carrier Comm	cellular	37.524813	-77.804146
7	2407 Mitchell Rd	250	Powhatan County	cellular	37.551865	-77.923485
12	3834 Old Buckingham Rd	285	Virginia State Police	micro/cell	37.538820	-77.913090
14	1988 Newwood Creek Rd	116	Virginia Power	cellular	37.570240	-77.712500
15	655 Huguenot Tr	250	Crown Castle Corp	cellular	37.555760	-77.894661
16	2272 Walnut Tree Blvd	250	SBA Towers	cellular	37.568870	-78.014119
17	3610 Bolling Rd	300	SBA Towers	cellular	37.637697	-77.805425
18	4202 Old Buckingham Rd	225	Southern Electric Coop	cellular	37.549198	-77.944637
22	4010 Jefferson Park Rd	196	American Tower	cellular	37.600220	-77.939275
23	1454 Anderson Hwy	145	American Tower	cellular	37.509043	-77.744954
24	3139 Monte Rd	195	SBA Towers	cellular	37.616300	-77.864500
25	5206 Anderson Hwy	221	SBA Towers	cellular	37.567764	-78.013580
26	2561.8 Judea Ferry Rd	196	SBA Towers	cellular	37.563358	-77.798914
27	2008 Huguenot Tr	0	Virginia Power	cellular	37.598240	-77.785960
28	3635 Quarter Mill Dr	0	ATT	cellular	37.491030	-77.800550
29	1454 Lewis Ln	0	ATT	cellular	37.524270	-77.806860

Not all tower locations are displayed within the main map extent.

**Map Reference**

**A) County Administration Building** - 3834 Old Buckingham Rd

Single story building with attic – demark located in storage room at right rear of building;

LAN room located inside center of building

38 employees

***1 GB – Redundant Internet connection required***

**B) Facilities / Utilities Building** – 3849 Old Buckingham Rd

NOTE: This is a building leased by the county; it will remain linked to the county network via the current Cisco wireless connection for the duration of the lease. IT WILL NOT BE FIBERED.

**C) Commonwealth Attorney's Office** - 3801 Marion Harland Dr

Single story building (with attic) – demark located in attic; LAN switch located in inside closet in center of building

4 employees

100 MB

**D) Investigations Office** - 3872 Old Buckingham Rd

Single story building with attic – demark and LAN switch located in inside closet at left rear of office

4 employees

100 MB

**E) County Attorney's Office** - 3876 Old Buckingham Rd

Single story building with attic – demark and LAN switch located in inside storage room at rear of building

2 employees

100 MB

**F) County Courthouse Building** - 3880 Old Buckingham Rd

Two story building – demark located in mechanical room on lower level (below ground) left side of building; LAN room located on lower level (below ground) right of center of building

40 to 50 employees (varies)

***1 GB – Redundant Internet connection required***

**G) Health / Social Services Building** - 3908 Old Buckingham Rd

Split-level building – demark located on lower level; LAN switch located in inside closet on ground level in center of building

4 employees w/20 additional phone system users

100 MB

**H) Village Building - 3910 Old Buckingham Rd**

Three story building – demark located below ground in mechanical room left side of building;  
LAN room located beside mechanical room  
10 employees (likely future expansion location)

***1 GB – Redundant Internet connection required***

**I) Convenience Center - 2407 Mitchell Rd**

One story frame shed – no County network connection currently in place  
4 employees  
100 MB

**J) Company 1 Fire House - 3971 Old Buckingham Rd**

Single story building – demark located in storage closet at right rear of building; no County network connection currently in place  
4+ employees (varies)  
100 MB

**K) Public Library - 2270 Mann Rd**

Single story building – demark in LAN room located in left rear of building  
7 employees, public Internet access point  
100 MB

**L) Fighting Creek Park Concession Building - 2175 Mann Rd**

Two story building – demark located in ground level storage room at rear of building; LAN closet located on second floor in center of building  
2 employees  
100 MB

**M) Animal Control Facility - 4000 Old Plantation Rd**

Single story building – demark and LAN switch located in inside storage room on right side of building  
4 employees  
100 MB

**N) Fighting Creek Waste Water Treatment Plant - 3900 Old Plantation Rd**

Single story building – demark and LAN switch located in inside control room at rear right corner of building  
1 employee  
100 MB

**O) Dutoy Creek Waste Water Treatment Plant** - 2040 Anderson Hwy

Single story building – demark and LAN switch located in inside control room at rear of building  
2 employees  
100 MB

**P) Company 2 Fire House** - 1959 Urbine Rd

Single story building – demark located in LAN closet in center of building  
5+ employees (varies)  
100 MB

**Q) Powhatan Volunteer Rescue Squad** - 3920 Marion Harland Lane

Two story building – demark located at left rear of building; no County network connection currently in place  
3+ employees  
100 MB

**Optional Facilities**

The County *desires* connectivity to these facilities but realizes due to their geographic location this may not be feasible or cost effective. Vendors are encouraged to include options for connectivity to these facilities on their proposals, with proposed costs separately identified, but are not required to do so for the proposal to be considered.

**R) Company 4 Fire House** - 1825 Huguenot Trail

Single story building – demark located in closet at left rear of building; no County network connection currently in place  
5+ employees (varies)  
100 MB

**S) Company 5 Fire House** – 5631 Anderson Hwy

Single story building – demark located in closet at right rear of building; no County network connection currently in place  
3+ employees (varies)  
100 MB

**T) Company 3 Fire House** - 6377 Old Buckingham Rd

Single story building – demark located in closet at left rear of building; no County network connection currently in place  
3+ employees (varies)  
100 MB